

| | | | |
|-------------------|------------------------------|----------|--------------------|
| Series | S-SERIES LFP | Warranty | See Warranty Terms |
| Volts | 12 | Design | Grp 31 |
| Terminal Type | M8 | | |
| Included Hardware | M8 stainless bolts & washers | | |

Charge | Discharge

| | |
|--------------------------------------|--------------|
| Charge Voltage Range | 14.0 - 14.6V |
| Recommended End of Discharge Voltage | 12.0 V |
| End of Discharge Protection Voltage | 10.0 V |
| Recommended Charge Voltage | 14.4 V |

Recommended Charge Current

| | | |
|--------------------|------|-----|
| -20~0°C (-4-50°F) | 0.1C | 14A |
| 0~10°C (32-50°F) | 0.2C | 27A |
| 10~35°C (50-95°F) | 0.5C | 68A |
| 35~50°C (95-122°F) | 0.2C | 27A |

Charge Mode:

- Charge at recommend voltage & current by temperature until charge current drops to $\leq 0.05C$ (CC,CV)
- DO NOT USE TEMPERATURE COMPENSATION
- No BTS (Battery Temperature Sensor)

| | |
|----------------------------------|-----------------------|
| Max Continuous Charge Current | 135 A |
| Max Continuous Discharge Current | 135 A |
| Surge Current Limit | 900 A (300ms) |
| Charge Temperature Range | -20°C~55°C (-4~131°F) |
| Discharge Temperature Range | -20°~60°C (-4~140°F) |
| Storage Temperature Range | -5°~45°C (23~113°F) |

Capacity

| | |
|------------------|----------|
| Nominal Capacity | 135 AH |
| Total Energy | 1.73 kWh |
| Nominal Voltage | 12.8 V |

Safety

- Cylindrical LiFePO4 cells (UL1642)
- IEC62133 (cell), IEC62619(cell), UN38.3 (cell/pack)
- ROHS (cell), CE system certification, IP65 Rating

Design

- Standard-size (BCI) ABS container for easy VRLA replacement
- Fast charge/discharge performance
- Display & integrated controls
- Visual state-of-charge (SOC)
- External fuse access
- Internal heating for -20°C (-4°F) to 0°C (32°F) charging *
- Bluetooth Connectivity & dedicated IOS & Android App
- Maintenance-free operation

* Note: When connected in series, internal heating may increase charge imbalance requiring external rebalancing.

Refer to [R-Series & S-Series LFP Battery Operating Manual](#)

Battery Management System (BMS)

- Integrated hardware BMS inside
- Independent charge & discharge protection
- Balance Protection
- Short-Circuit Protection, Over-Voltage Protection, Low-Voltage Protection, Over-Current Protection, Low-Temperature Protection, Over-Temperature Protection

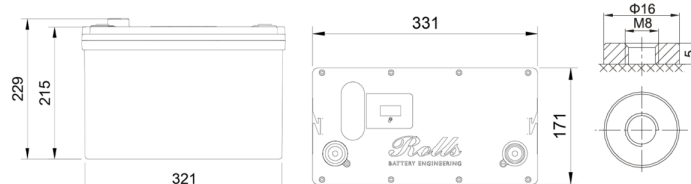
12V LFP Profile

| Specifications | | |
|--------------------|---------|----------|
| Weight | 14.6 kg | 32.2 lbs |
| Length | 331 mm | 13.03" |
| Width | 171 mm | 6.73" |
| Height | 215 mm | 8.46" |
| Height Incl. Term. | 229 mm | 9.02" |

Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process & battery components.

| | |
|---------------------|--|
| Container | ABS |
| Cover | ABS |
| Handles | Rope / Plastic Handle |
| Internal BMS Model | 4S150ATX-V2 |
| Expected Cycle Life | >6000 @ 80% DOD, >3000 @ 100% DOD |
| Series Connection | 4 UNITS MAX (48V) |
| Parallel Connection | 4 UNITS MAX (48V) or 6 UNITS MAX (12V) |
| Connectivity | Up to 454P (in 48V configuration) or 156P (in 12V configuration) |

Detailed Illustration





ISO9001



ISO14001



OHSAS18001



Rev.#1 | July 2024